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(ENG) ETHYLENE-ALPHA-OLEFIN COPOLYMER

Assignee: NIPPON OIL CO LTD

[no drawing available]

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Abstract: (ENG) <sec>PURPOSE: To obtain the subject copolymer having broad molecular weight distribution, high melt tension, large die-swell ratio, large n- value and excellent processability and useful for blow molding, etc. CONSTITUTION: The subject copolymer is a copolymer of ethylene and a 3- 20C α-olefin, having a melt flow rate of 0.01-200g/10min and a density of 0.880-0.960g/cm<sp pos="post">3</sp>, exhibiting ≥2 dissolution peaks by temperature-increasing dissolution fractionation wherein at least one of the dissolution peak temperature is ≥95°C and at least one of the dissolution peak temperature is ≤90°C, and having a die-swell ratio of ≥1.5, an n-value of ≥1.40 and an Mw/Mn ratio of ≥5.0 measured by GPC. The copolymer is produced preferably in the presence of a catalyst obtained e.g. by contacting a silicon oxide and/or aluminum oxide with a compound of the formula Me<sp pos="post">1</sp> (OR<sp pos="post">1</sp>)p</sb>R<sp pos="post">2</sp>q</sb>X<sp pos="post">1</sp>4-p-q</sb>(R<sp pos="post">1</sp>and R<sp pos="post">2</sp>are each a 1-24C hydrocarbon group; X<sp pos="post">1</sp>is a halogen or H; Me<sp pos="post">1</sp>is Ti, Zr, etc.; (p) and (q) are each 0-4; p+ q is 0-4).</sec>

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